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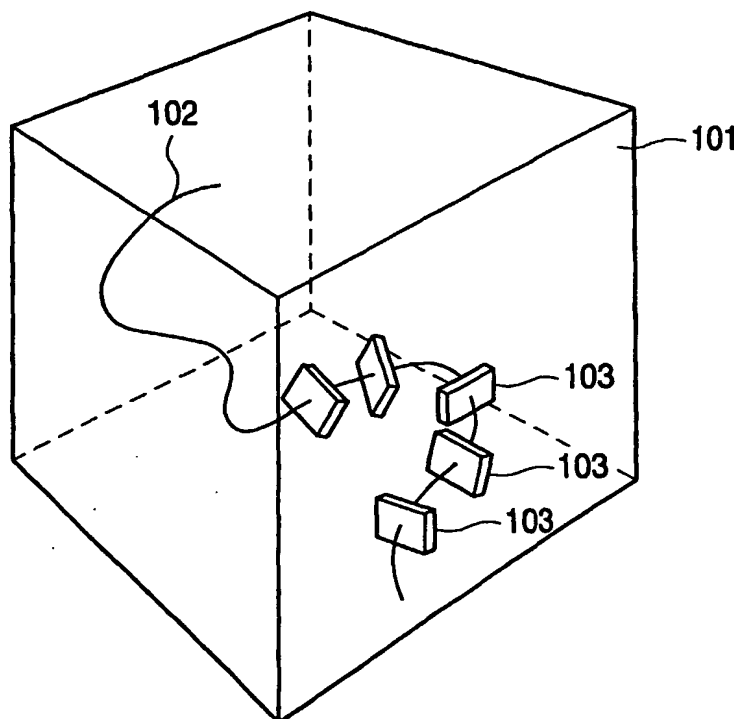
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[Continued on next page]

(54) Title: METHOD OF STRAIGHTENING A REFORMAT FOR NAVIGATION AND QUANTIFICATION



(57) Abstract: A method of producing an improved straightened reformat is presented in which cross sections are calculated perpendicular to an elongate subject described within an object data set, a reference direction is determined in each cross sectional slice and a new object data set is created by concatenating the cross sectional slices, each cross sectional slice orientated so that the reference directions in the cross sectional slices are aligned. Various methods are presented by which the reference direction is determined within each cross sectional slice, including propagation from an original reference direction and optimization using determined reference directions as boundary conditions.



PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 37219 A (GEN ELECTRIC) 25 May 2001 (2001-05-25) abstract page 10, line 22 - line 24 figure 10 ---	1-11
A	WO 01 80185 A (GEN ELECTRIC) 25 October 2001 (2001-10-25) abstract page 9, line 20 - line 25 figures 21,22 --- -/-	1-11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DESCHAMPS T ET AL: "AUTOMATIC CONSTRUCTION OF MINIMAL PATHS IN 3D IMAGES: AN APPLICATION TO VIRTUAL ENDOSCOPY"</p> <p>CARS. COMPUTER ASSISTED RADIOLOGY AND SURGERY. PROCEEDINGS OF THE INTERNATIONAL CONGRESS AND EXHIBITION, PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON COMPUTER ASSISTED RADIOLOGY AND SURGERY, XX, XX, 23 June 1999 (1999-06-23), pages 151-155, XP008007657 abstract</p> <p>----</p>	1-11
A	<p>VERDONCK B ET AL: "SPIRAL CT: A SURVEY ON ACCURACY, RESOLUTION AND ARTIFACTS" APPLIED SIGNAL PROCESSING, SPRINGER VERLAG, LONDON, GB, vol. 5, no. 1, 1998, pages 3-23, XP000852962 ISSN: 0941-0635 abstract</p> <p>-----</p>	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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